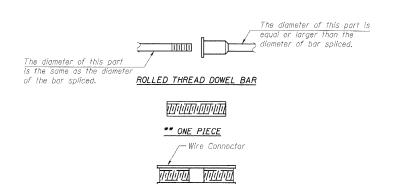
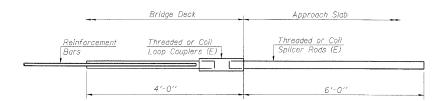
Stage Construction Line



BAR SPLICER ASSEMBLY ALTERNATIVES

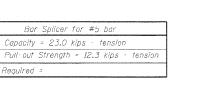
WELDED SECTIONS

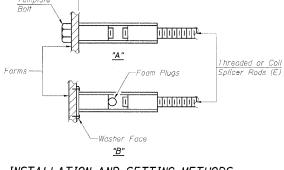
**Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

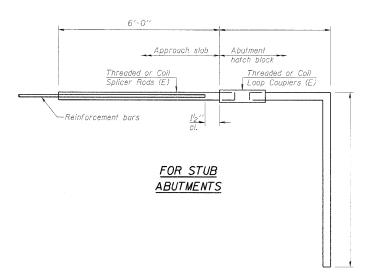
Min.	Capaci	'y =	23.0	kips	-)	'ensio	n		
Min.	Pull-ou	t Sti	renati	7 = 1	2.3	Kips	-	tensi	2/7





INSTALLATION AND SETTING METHODS

"A": Set bar splicer assembly by means of a template bolt. "B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms. (E) : Indicates epoxy coating.



	Bar Splicer for #5 bar
Min.	Capacity = 23.0 kips - tension
Min,	Pull-out Strength = 12.3 kips - tension

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.

All reinforcement bars shall be lapped and fied to the splicer rods or dowel bars. Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.

Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

Minimum Capacity
(Tension in kips) = 1.25 x fy x A,

Minimum *Pull-out Strength = 0.66 x fy x A,

(Tension in kins)

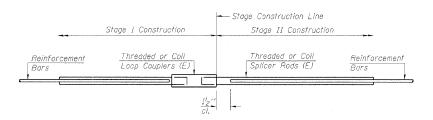
② (Tension in kips)

Where fy = Yield strength of lapped reinforcement bars in ksi.

A, = Tensile stress area of lapped reinforcement bars.

* = 28 day concrete

	BAR SPLIC	ER ASSEMBLI	ES		
	Splicer Rod or Dowel Bar Length	Strength Requirements			
			Min. Pull-Out Strength kips - tension		
#4	1'-8''	14.7	7.9		
#5	2'-2"	23.0	12.3		
#6	2'-7"	33.1	17.4		
#7	3′-5′′	45.1	23.8		
#8	4'-6''	58.9	31.3		
#9	5′-9″	75.0	39.6		
#10	7′-3′′	95.0	50.3		
#]]	9'-0"	117.4	61.8		



STANDARD

Bar Size	No. Assemblies Required	Location		
#5	36	Deck		
#4	50	App. Slab		
#5	92	App. Slab		
#5	80	App. Footing		

BAR SPLICER ASSEMBLY DETAILS STRUCTURE NO. 022-0137

difred benesch & company Engineers - Surveyors - Planners Sch North Michigan Avenue Suite 2400 Chicago, Illinois 60601 312-685-0450 Job No. 10060

SHEET NO.15 32 SHEETS

TOTAL SHEET NO. SECTION COUNTY 22(1, 1-1, 2&3)RS-7 DUPAGE 546 428 CONTRACT NO. 60G51 FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

DESIGNED CHECKED KWS RMG CHECKED KWS

BSD-1

10-1-08